

Mathematics

## Long Term Plan

## Year 3

Updated June 2023
To be read in conjunction with the Calculation Policy

Year 3 Long Term Plan

|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 | Week 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \frac{\Sigma}{5} \\ & \frac{1}{3} \\ & \frac{1}{x} \end{aligned}$ | NUMBER <br> Place Value |  |  | NUMBER <br> Addition and Subtraction Including explicit teaching of mental methods |  |  |  |  | NUMBER <br> Multiplication and Division $A$ Including explicit teaching of mental methods <br> Maths Week England |  |  |  |  |
| $\begin{aligned} & \text { g } \\ & \frac{5}{x} \\ & \hat{n} \end{aligned}$ |  | BER <br> cation <br> ision B <br> nued | MEASU Leng Peri |  |  |  | NUMBER <br> Fractions A continued |  | MEASU <br> Mass Cap | RMENT and city | GEOMETRY <br> Shape |  |  |
| $\begin{aligned} & \frac{C}{Q} \\ & E \\ & E \\ & Э \end{aligned}$ | NUM Fract | BER <br> ons B | MEASU Mo | EMENT ey | MEASUREMENT <br> Time |  | $\begin{aligned} & \frac{y}{\hbar} \\ & \frac{6}{\hbar} \\ & \frac{5}{6} \end{aligned}$ |  | Consolidation of RTP's PiXL Analysis Focus Times Tables Focus <br> My Money Maths |  |  |  |  |

## Year 3 Medium Term Plan

| Autumn Term | Weeks 1-3 | Weeks 4-7 | Week 8 | Weeks 9-12 <br> Maths Week England | Week 13 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Domain | Place Value | Addition and Subtraction |  | Multiplication and Division A | Multiplication and Division B |
| NC Objective | * Identify, represent and estimate numbers using different representations <br> *Recognise the place value of each digit in a 3-digit number (hundreds, tens, ones) <br> * Count from zero in multiples of 4, 8,50 and 100; find 10 or 100 more or less than a given number <br> * Read and write numbers up to 1,000 in numerals and words <br> $\star$ Compare and order numbers up to 1,000 <br> Ensure coverage of: <br> $\star$ Solve number problems and practical problems involving these ideas. | ћ Add and subtract numbers mentally, including: <br> - a 3-digit number and ones <br> - a 3-digit number and tens <br> - a 3-digit number and hundreds <br> $\star$ Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction <br> * Estimate the answer to a calculation and use inverse operations to check answers <br> * Solve problems, including missing number problems, using number facts, place value, and more complex addition and subtraction <br> Although formal algebraic notation is not introduced until Y6, algebraic thinking starts much earlier as exemplified by the 'missing number' objectives from Y1/2/3 |  | Maths Week England will be celebrated during this block with a set focus <br> $\star$ Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables <br> * Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods | * Recall and use multiplication and division facts for the 3,4 and 8 multiplication tables <br> * Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods <br> * Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which nobjects are connected to mobjects |
| Smaller Steps (WRM) |  |  |  |  |  |



## Year 3 Medium Term Plan

| Spring <br> Term | Weeks 1-2 | Weeks 3-4 | Week 5 | Week 6 | Weeks 7-8 | Weeks 9-10 | Weeks 11-12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Domain | Multiplication and Division B | Length and Perimeter | Fractions A |  | Fractions A continued | Mass and Capacity | Properties of Shape |
| NC Objective | * Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables <br> * Write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for 2-digit numbers times 1-digit numbers, using mental and progressing to formal written methods <br> » Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which $n$ objects are connected to $m$ objects | ぇ Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ) <br> $\star$ Measure the perimeter of simple 2-D shapes | * Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 <br> $\star$ Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators <br> $\star$ Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators <br> * Recognise and show, using diagrams, equivalent fractions with small denominators <br> * Compare and order unit fractions, and fractions with the same denominators <br> * Solve problems that involve all of the above |  | * Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing onedigit numbers or quantities by 10 <br> * Recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators <br> * Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators <br> * Recognise and show, using diagrams, equivalent fractions with small denominators <br> * Compare and order unit fractions, and fractions with the same denominators <br> * Solve problems that involve all of the above | * Measure, compare, add and subtract: lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ); mass ( $\mathrm{kg} / \mathrm{g}$ ); volume/capacity ( $1 / \mathrm{ml}$ ) | * Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them <br> ฝ Recognise angles as a property of shape or a description of a turn <br> * Identify right angles, recognise that two right angles make a halfturn, three make three quarters of a turn and four a complete turn; identify whether angles are greater than or less than a right angle <br> * Identify horizontal and vertical lines and pairs of perpendicular and parallel lines |
| Smaller Steps (WRM) |  |  |  | a |  |  |  |

* 3NF-3 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 10)
- Step 10-Scaling
* 3MD-1 Apply known multiplication and division facts to solve contextual problems with different structures, including quotitive and partitive division
- All 11 steps in this block relate to this criterion

3NPV-1 Know that tens are equivalent to 1 hundred, and that 100 is 10 times the size of 10 ; apply this to identify and work out how many 10s there are in other threedigit multiples of 10

- Step 5-Equivalent lengths (metres and centimetres)
- Step 6-Equivalent lengths (centimetres and millimetres)
* 3NPV-4 Divide 100 into $2,4,5$ and 10 equal parts, and read scales/number lines marked in multiples of 100 with $2,4,5$ and 10 equal parts.
- Step 1-Measure in metres and centimetres
- Step 2-Measure in millimetres
- Step 3-Measure in centimetres and millimetres

3F-1 Interpret and write proper fractions to represent 1 or several parts of a whole that is divided into equal parts

- Step 1-Understand the denominators of unit fractions
- Step 3-Understand the numerators of non-unit fractions
- Step 4-Understand the whole
* 3F-3 Reason about the location of any fraction within 1 in the linear number system - Step 2-Compare and order unit fractions
* 3F-3 Reason about the location
of any fraction within 1 in the
linear number system
- Step 5-Compare and order non-unit fractions
- Step 7-Fractions on a number line
- Step 8-Count in fractions on a number line
3NF-3 Apply place-value
knowledge to known additive and multiplicative number facts (scaling facts by 10)
- Step 6-Fractions and scales - Step 9-Equivalent fractions on a number line
- Step 10-Equivalent fractions as bar models in fractions on a number line
* 3G-1 Recognise right angles as a property of shape or a description of a turn and identify right angles in 2D shapes presented in different orientations
-Step 2-Right angles
* 3G-2 Draw polygons by joining marked points and identify parallel and perpendicular sides
- Step 6-Parallel and perpendicular
- Step 8-Draw polygons


